

ABSTRACT OF THE DISCLOSURE

Disclosed is a multi-functional actuator comprising: a housing having an internal space and a groove in the inner side; a sound-generating diaphragm with an outer end fixed to the upper end of said housing; a voice coil fixed to the bottom of said diaphragm; a vertically magnetized magnet; an upper plate attached to said magnet for forming a magnet circuit; a yoke for forming the magnetic circuit together with said magnet; a weight for defining a vibration body together with said yoke; a leaf spring fixed into said grooves of the housing and having a portion of curvature; and a vibrating coil installed in said housing for generating vibration using a magnetic flux formed in a magnetic system. A structure that can prevent deformation of the leaf spring before/after dropping to a mobile communication terminal such as mobile telephone and pager is provided thereby to prevent reliability degradation of the actuator in use for the mobile communication terminal and enhance vibration features thereof.